

Night Vision (NV) Image Intensification (I2)



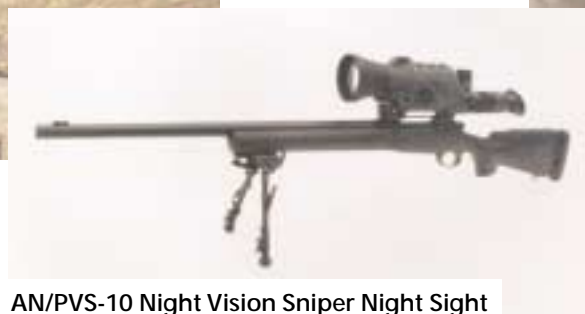
Target Location & Observation System (TLOS)



Aviator's Night Vision Imaging System Heads-up Display (ANVIS/HUD)



AN/PVS-7D Night Vision Goggle



AN/PVS-10 Night Vision Sniper Night Sight

MISSION

Enable soldier to operate more effectively and safely in day or night and under degraded battlefield conditions.

DESCRIPTION AND SPECIFICATIONS

Night Vision (NV) Image Intensification (I2) systems include the following:

The **AN/AVS-6 Aviator's Night Vision Imaging System** (ANVIS) provides image intensification that enables helicopter crew members to conduct night missions under minimal ambient light conditions. It is powered by existing aircraft power, a helmet-mounted battery pack, or a clip-on power supply. The **AN/AVS-7 Aviator's Night Vision Imaging System Heads-Up Display** provides aviators with critical flight information superimposed on the visual image of the ANVIS. The system is electro-optical and provides both the pilot and copilot critical, real-time, high-resolution flight and navigational information. The **AN/PVS-7D Night Vision Goggle** is a lightweight, biocular goggle used by individual soldiers. It uses a single passive third-generation image intensifier tube. The goggle is used in combat, combat support, and combat service support operations. Ancillary equipment includes a helmet mount, protective eyecups, an objective lens cover, a compass, and a 3X magnifying lens. The **AN/PVS-14 Monocular Night Vision Device** will provide leaders of combat infantry units with a small, lightweight, night vision device for use in observation and command and control. It interfaces with the AN/PVS-7D head and helmet mount and the 3X magnifier. It can also be mounted to a small arms rail using a rail grabber. The **AN/PVS-10 Night Vision Sniper Night Sight** is an integrated day/night sight for the M24 sniper rifle. It enables the sniper to acquire and engage targets during low and high ambient light conditions. The system mounts on the M24 and uses the same mil-dot reticle as the existing Leopold day scope. The magnification for day and night operation is 8.5X, and the system's maximum weight is 4.9 lb. The **AN/TVS-5A** is a long-range night vision sight used with the MK-19 grenade launcher and the M2 machine gun. The sight provides a magnification of 5.8X, a field of view 9.2 degrees, and employs a mounting bracket that corrects for trajectory and/or windage, depending on the weapon. There is an upgrade program to replace the current 16mm tube with a 25 mm tube for a portion of the fielded systems. The **Lightweight Video Reconnaissance System** consists of a man-portable out station and a vehicle-mounted base station. The outstation is used by surveillance or reconnaissance teams to capture, compress, and transmit still-frame images over military

radios to the base station located at a higher echelon. The **Target Location and Observation System** (TLOS) is a lightweight, self-contained, image-intensified day/night sight that employs a near-infrared low-energy laser to actively acquire direct view and electro-optic targets.

FOREIGN COUNTERPART

I2, laser, and thermal devices are produced in many countries.

FOREIGN MILITARY SALES

AN/AVS-6(V)1 and 2: Bahrain, Colombia, Greece, Jordan, Mexico, Saudi Arabia, Taiwan, Thailand, United Arab Emirates.

AN/PVS-7: Italy, Kuwait, Mexico, Portugal, Saudi Arabia.

Taiwan. **ANVIS/HUD:** Israel

PROGRAM STATUS

FY99 Completed HUD fielding.

1QFY99 LVRS first unit equipped at Ft. Bragg, NC.

2QFY99 Completed TLOS deliveries; first unit equipped.

3-4QFY99 Test new LVRS outstation.

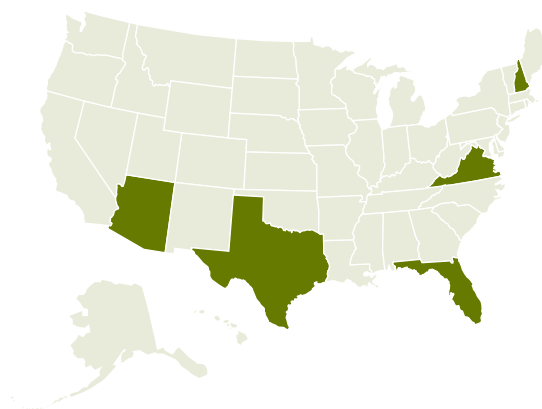
Current Field AN/TVS-5A.

PROJECTED ACTIVITIES

3-4QFY00 Test new TVS-5A mounting bracket.

PRIME CONTRACTORS

ITT (Roanoke, VA); BAE Systems (Austin, TX); Litton Industries (Garland, TX; Tempe, AZ); Lockheed Martin (Orlando, FL; Nashua NH)



* See appendix for list of subcontractors

